| Index of | Claims |
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|          |        |

| Application/Control No. | Applicant(s)/Patent under Reexamination |
|-------------------------|---|
| 10/666,855              | WADA ET AL.                             |
| Examiner                | Art Unit                                |

|   | Rejected | - | (Through numeral)<br>Cancelled |
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| : | Allowed  | ÷ | Restricted                     |

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| Cla       | aim  | Date         |               |  |  |              |  |  |          |          |
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| Final     | Original   | 7/19/06      |               |  |  |              |  |  |          |          |
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|           | 1<br>2<br>3<br>4<br>5  | 1            |               |  |  |              |  |  |          |          |
|           | 3  | 1            |               |  |  |              |  |  |          |          |
|           | 4  | 1            |               |  |  |              |  |  |          |          |
|           | 5  | 1            |               |  |  |              |  |  |          |          |
|           | 6<br>7   | 1            |               |  |  |              |  |  |          |          |
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|           | 8  | 1            |               |  |  | Ш            |  | _  | _        |          |
|           | 9  | 7            | $\Box$        |  |  |              |  |  | _        |          |
|           | 10   | 7            |               |  |  | Н            |  |  | $\dashv$ |          |
|           | 11   | V            |               | Н  |  | -            | $\vdash$   | $\dashv$   |          | _        |
|           | 8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21 | -            | $\vdash$      | $\vdash$   | $\vdash$   | $\vdash$     |  | $\dashv$   |          | -        |
|           | 14   | $\vdash$     | $\vdash$      | -  | $\vdash$   | H            |  | $\dashv$   | -        | _        |
|           | 15   |              | <u> </u>      | -  |  | -            | -  | $\vdash$   | -        | _        |
|           | 16   | -            | _             | -  |  | _            |  |  |          | -        |
| -         | 17   | $\vdash$     | -             | -  |  | -            |  | $\dashv$   | $\dashv$ | -        |
|           | 18   | -            | $\vdash$      | ┝  |  | -            | -  | -  | $\neg$   |          |
|           | 19   | ⊢            | -             |  |  | $\vdash$     |  |  | $\dashv$ |          |
|           | 20   | Н            | $\vdash$      | -  |  | -            |  | Н  |          |          |
|           | 21   | -            |               | _  |  | -            |  | _  |          |          |
|           | 22   |              |               |  |  |              |  |  |          |          |
|           | 22<br>23<br>24   |              |               | $\vdash$   | _  |              | _  |  |          |          |
|           | 24   | Г            |               |  |  |              |  |  |          |          |
|           | 25<br>26<br>27<br>28<br>29<br>30<br>31<br>32                                   |              |               |  |  |              |  |  |          |          |
|           | 26   |              |               |  |  |              |  |  |          |          |
|           | 27   |              |               |  |  |              |  |  |          |          |
|           | 28   |              |               |  |  |              |  |  |          |          |
|           | 29   |              |               |  |  | <u></u>      |  |  |          |          |
|           | 30   |              |               |  | L  |              | _  |  |          |          |
|           | 31   | _            | <u> </u>      | L_   |  | _            | L  | <u> </u>   |          |          |
|           | 32   | <u> </u>     | <u> </u>      | <u> </u>   | <u> </u>   | <u> </u>     | <u> </u>   | $\vdash$   | <u> </u> |          |
|           | 33   | <del> </del> | <u> </u>      | <u> </u>   | ļ  |              | <u> </u>   | <u> </u>   | <u> </u> | $\vdash$ |
|           | 33<br>34<br>35   | ├-           | _             | $\vdash$   | ├—   | ├-           | ⊢  | -  | <u> </u> |          |
|           | 35   |              | -             | -  | -  | ├-           | ⊢  | <u> </u>   | -        | _        |
| ├         | 36<br>37   | ├-           | $\vdash$      | ├-   | ┝  | ├-           | $\vdash$   | $\vdash$   | H        | _        |
|           | 38   | ┼-           | -             | $\vdash$   | -  | ⊢            | $\vdash$   | ├-   | ┝        | _        |
| <b></b> - | 39   | +            | $\vdash$      | -  | ├-   | -            | <del>                                     </del> | $\vdash$   | $\vdash$ | $\vdash$ |
|           | 40   | $\vdash$     | +-            | $\vdash$   | $\vdash$   | $\vdash$     | ╁  | <del>                                     </del> | $\vdash$ | -        |
| ļ         | 41   | +-           | $\vdash$      | <del>                                     </del> | <del>                                     </del> | $\vdash$     | 一  |  | -        |          |
| <u> </u>  | 42   | $\vdash$     | t             | t  | H  | <del> </del> | $\vdash$   | $\vdash$   | $\vdash$ | -        |
|           | 43   | $\vdash$     | ┰             | $t^-$  | <del>                                     </del> | $\vdash$     | T  | $\vdash$   | $\vdash$ | $\vdash$ |
| <b></b>   | 44   | +            | Т             | 1  | $\vdash$   | 1-           | <u> </u>   | $\vdash$   | <u> </u> | Т        |
|           | 45   | T            |               | T  | 1  | T            | Т  | $\vdash$   | 1        |          |
|           | 46   | T            | T             | Г  | 1  |              | Г  |  |          | Π        |
|           | 47   | $\top$       |               |  | 1  |              | Π  |  |          |          |
|           | 48   |              | П             |  |  |              |  |  |          |          |
|           | 49   |              |               |  |  |              |  |  |          |          |
|           | 50   | Г            | $\overline{}$ | т-   |  | Г            | T  |  | ı        |          |

| lai | m        | Date     |              |          |  |          |          |          | Cla          | im       | Date |  |          |              |              |                    |          |              |              |          |          |          |
|-----|----------|----------|--------------|----------|--|----------|----------|----------|--------------|----------|------|--|----------|--------------|--------------|--------------------|----------|--------------|--------------|----------|----------|----------|
|     | Original | 2/19/06  |              |          |  |          |          |          |              |          |      | Final                                  | Original |              |              |                    |          |              |              |          |          |          |
| 1   | 1        | 1        |              |          |  |          |          |          |              |          |      |  | 51       |              |              |                    |          |              |              |          |          |          |
|     | 2        | 1        |              |          |  |          |          |          |              |          |      |  | 52       |              | _            |                    |          |              |              | _        |          |          |
| 1   | 3        | 7        |              |          |  |          |          |          |              |          |      |  | 53       |              | _            | _                  |          |              |              | _        |          |          |
| 4   | 4        | 7        |              |          |  |          |          |          |              |          |      |  | 54       |              | _            | _                  |          | _            |              | _        |          | _        |
| 4   | 5        | 7        |              |          |  |          |          |          |              |          |      |  | 55_      | -            |              |                    |          | _            |              | _        | _        | $\dashv$ |
| 4   | 6        | 7        |              | _        |  | L        |          |          |              |          |      |  | 56       | $\vdash$     |              |                    | _        | _            | -            | -        |          |          |
| 4   | 7        | 7        |              |          |  | -        | _        | _        |              |          |      |  | 57       |              | -            | _                  | _        |              | -1           | -        |          | $\dashv$ |
| 4   | 8        | 77       |              |          |  | Н        |          |          | -            |          |      |  | 58<br>59 | $\dashv$     |              | $\dashv$           |          |              | $\vdash$     | $\dashv$ |          | $\dashv$ |
| +   | 9        | 7        | -            |          |  | Н        | _        |          |              |          |      |  | 60       | $\dashv$     |              |                    | _        |              |              | $\dashv$ | $\dashv$ | $\dashv$ |
| +   | 10<br>11 | 7        |              | _        |  | Н        |          |          | -            |          |      |  | 61       | $\vdash$     | $\dashv$     |                    | _        | _            |              | $\dashv$ | $\dashv$ | $\dashv$ |
| +   | 12       | ·        | Н            | Н        | _  | Н        |          | _        |              | _        |      | -                                      | 62       | Н            |              | -                  | _        | _            | -            |          | $\vdash$ | $\dashv$ |
| +   | 13       | ├        |              | -        | _  | Н        |          | _        |              |          |      |  | 63       | $\vdash$     | -            |                    | _        | _            | Н            |          |          | -        |
| +   | 14       | $\vdash$ |              |          |  | _        | -        |          | -            | _        |      |  | 64       | $\vdash$     | _            | -                  | _        |              | Н            | _        |          | $\neg$   |
| ╅   | 15       |          | H            | _        | _  | -        | _        | _        | $\vdash$     | _        |      | <u> </u>                               | 65       | $\vdash$     | $\neg$       | -                  |          | _            |              | _        | -        | $\neg$   |
| +   | 16       | $\vdash$ | $\vdash$     | _        | $\vdash$   | _        |          |          |              | _        | İ    | <del></del>                            | 66       |              |              |                    | -        | _            |              |          | $\neg$   | $\dashv$ |
| +   | 17       | $\vdash$ | -            | -        | $\vdash$   |          |          |          |              | -        |      | <del> </del>                           | 67       | Н            |              | _                  |          | _            | М            | _        |          | П        |
| 1   | 18       | -        | $\vdash$     | $\vdash$ |  | -        | -        | _        | -            |          |      |  | 68       | Н            |              |                    |          |              | П            |          |          | $\Box$   |
| +   | 19       | -        | -            |          |  | $\vdash$ |          |          |              | _        | i    |  | 69       | Н            |              |                    |          |              |              | $\neg$   |          | $\neg$   |
| +   | 20       | H        | ┢            | -        |  |          |          | _        |              |          | 1    |  | 70       |              |              |                    |          |              | П            |          |          |          |
| +   | 21       | -        | $\vdash$     | _        | _  | -        |          |          | Н            |          | 1    |  | 71       | -            |              |                    |          |              |              |          |          |          |
| +   | 22       | ┢        | $\vdash$     | _        | $\vdash$   | $\vdash$ | _        | _        | Н            | _        | 1    |  | 72       | П            |              |                    |          |              |              |          |          | $\neg$   |
| +   | 23       | -        |              | $\vdash$ | -  |          | _        | $\vdash$ | $\vdash$     | $\vdash$ |      |  | 73       |              |              |                    |          |              | Т            |          |          |          |
| +   | 24       | ┢        |              | _        | <del>                                     </del> |          |          |          |              | $\vdash$ | 1    | <b></b>                                | 74       | $\vdash$     |              |                    |          |              |              |          | _        | $\neg$   |
| +   | 25       | -        |              | $\vdash$ |  |          |          | _        |              | _        | 1    |  | 75       |              |              |                    |          | Т            |              |          | _        | П        |
| 1   | 26       | $\vdash$ | -            | $\vdash$ | $\vdash$   | Н        | $\vdash$ |          | $\vdash$     |          | 1    |  | 76       | Н            |              |                    |          |              |              |          |          | П        |
| +   | 27       | ┢        | _            | Н        | $\vdash$   |          | $\vdash$ |          |              | $\vdash$ | i    |  | 77       | Т            |              |                    |          |              |              |          | П        | П        |
| 1   | 28       | $\vdash$ |              | H        | -  | ┢        | $\vdash$ | _        | $\vdash$     | $\vdash$ | 1    |  | 78       |              |              |                    |          | $\vdash$     |              |          | П        | $\Box$   |
| ┪   | 29       |          | -            |          | <del>                                     </del> | $\vdash$ | $\vdash$ | _        | $\vdash$     | _        | 1    |  | 79       | П            |              | _                  |          | 1            |              |          |          |          |
| 7   | 30       | Т        | Т            |          |  |          |          |          | Г            |          | 1    |  | 80       |              |              |                    |          | _            |              |          |          | П        |
| 1   | 31       | 1        | -            | $\vdash$ | ┢  |          |          |          | _            |          | 1    |  | 81       |              |              |                    |          |              | _            |          |          | П        |
| 7   | 32       | $\vdash$ | Г            | _        |  |          |          |          | Г            |          | 1    |  | 82       |              |              |                    |          |              | Г            |          |          |          |
| 7   | 33       | Г        | Г            |          |  | Τ        |          |          |              |          | 1    |  | 83       |              |              |                    |          |              |              |          |          |          |
| 7   | 34       |          |              |          |  | T        |          |          | Г            |          | 1    |  | 84       |              |              |                    |          |              |              |          |          |          |
| 1   | 35       | Г        |              | Г        | Γ  |          |          |          |              |          | ]    |  | 85       |              |              |                    |          |              |              |          |          |          |
| 1   | 36       |          |              |          |  |          |          |          |              |          | ]    |  | 86       |              |              |                    |          | 匚            |              |          |          |          |
| 1   | 37       |          |              |          |  |          |          |          |              |          | ]    |  | 87       |              |              |                    |          |              |              |          | 匚        |          |
|     | 38       |          | $\Box$       |          |  |          |          |          |              |          | ]    |  | 88       | $\Box$       |              |                    | _        | L            |              | <u> </u> | _        |          |
|     | 39       |          |              |          | $\Box$   |          |          |          |              | L        |      |  | 89       | _            |              | $oxedsymbol{oxed}$ | L        | L            |              | <u> </u> | <u></u>  | L        |
| J   | 40       | $\Box$   | oxdot        |          |  |          | 匚        |          | L            |          | 1    |  | 90       |              |              | <u> </u>           |          | _            | $\vdash$     |          | <u> </u> |          |
|     | 41       |          |              |          |  | L        |          | <u> </u> |              | _        | 1    | ــــــــــــــــــــــــــــــــــــــ | 91       | _            | _            | <u> </u>           | L_       | L_           | L            | <u> </u> | ot       | $\Box$   |
|     | 42       |          | L            | L        |  | L        | L        | L        | L_           | _        |      | <u></u>                                | 92       | <u> </u>     | _            | _                  | _        | _            | <u> </u>     | L        | <u>L</u> | _        |
|     | 43       | <u> </u> | igspace      | _        | $oxedsymbol{oxed}$                               | <u> </u> | L_       |          | _            | $\vdash$ | 1    |  | 93       | <u> </u>     | <u> </u>     | <u> </u>           | <u> </u> | _            | <b> </b> _   | ļ        | <u> </u> |          |
|     | 44       | <u> </u> | <u> </u>     | <u> </u> | <u> </u>   | <u> </u> | L        |          | <u> </u>     | L        | 1    | L                                      | 94       | <del> </del> | <u> </u>     | <u> </u>           | _        | _            | <b> </b>     | <u> </u> | <u> </u> | Ш        |
|     | 45       | _        | _            | L        | L  | <u> </u> | <u> </u> | _        | <u> </u>     | <u> </u> | 1    |  | 95       | <del> </del> |              | $\vdash$           | _        | <u> </u>     | <b>⊢</b>     | <u> </u> | ├-       | ⊢        |
| _   | 46       | <u> </u> | <u> </u>     | <u></u>  | _  | 1        | <u> </u> | <u> </u> | _            | <u> </u> | 4    | <u> </u>                               | 96       | <u> </u>     | <u> </u>     | <u> </u>           | <u> </u> | <b> </b>     | ┞            | -        | ⊢        | <b>-</b> |
| _   | 47       | <u> </u> | <del> </del> | _        | $oxed{oxed}$                                     | <b>!</b> | <u> </u> | _        | <del> </del> | $\vdash$ | 1    | <u> </u>                               | 97       | <b>—</b>     | <u> </u>     | <u> </u>           | <u> </u> | ├_           | $\vdash$     | <u> </u> |          | ₩        |
| _   | 48       | _        | <b> </b>     | <u> </u> | <u> _</u>  | ـــ      | <u> </u> | <u> </u> | <del> </del> | ├-       | -    |  | 98       | ــ           | <u> </u>     | <b> -</b>          | ⊢        | <u> </u>     | <del> </del> | <b> </b> | <b> </b> | ļ        |
| _   | 49       | _        | ⊢            | <b> </b> | <u> </u>   | $\vdash$ | ـ        |          | ⊢            | ├-       | 1    | <u> </u>                               | 99       | ₩-           | <del> </del> | <u> </u>           | -        | <del> </del> | <del> </del> | $\vdash$ | -        | -        |
|     | 50       | <u></u>  |              | <u></u>  | <u> </u>   | ᆫ        | L        |          | <u> </u>     | <u></u>  | J    |  | 100      | Ц_           | L            |                    | L        | 1            | L            | <u></u>  | <b>!</b> | L        |

| Cla      | aim               |          |          |          |              | ate          | •        |                |          |                 |
|----------|-------------------|----------|----------|----------|--------------|--------------|----------|----------------|----------|-----------------|
| Final    | Original          |          |          |          |              |              |          |                |          |                 |
|          | 101               |          |          |          |              |              |          | $\neg$         |          | П               |
| -        | 101<br>102        |          |          |          |              | _            |          |                |          |                 |
|          | 103               |          |          |          |              |              |          |                |          |                 |
|          | 104               |          |          |          |              |              |          |                |          |                 |
|          | 105               |          |          |          |              | _            |          |                |          | _               |
|          | 106               |          |          |          |              | _            | _        | $\Box$         |          | Щ               |
|          | 107               | _        |          |          | _            | <u> </u>     | -        | $\vdash$       | _        |                 |
|          | 108<br>109        | $\vdash$ |          | -        |              | -            | $\vdash$ |                | Н        | $\dashv$        |
|          | 110               | -        | _        | _        | -            | $\vdash$     | -        |                |          |                 |
|          | 111               |          | _        |          |              | ┢            | _        |                |          |                 |
|          | 112               | М        |          |          |              |              |          | М              | П        |                 |
|          | 112<br>113        |          |          |          |              |              |          |                |          |                 |
|          | 114               |          |          |          |              |              |          |                |          |                 |
|          | 115               |          |          |          |              | Ĺ            |          |                | L        | Ш               |
|          | 116               | _        |          | <u> </u> |              | <u> </u>     | _        | _              | <u> </u> |                 |
|          | 117<br>118        | L.,      |          |          |              | <u> </u>     | _        | L              | <u> </u> |                 |
|          | 118               |          |          | $\vdash$ |              | -            | ⊢        | <u> </u>       |          |                 |
|          | 119               | -        | -        |          | -            | ├            | -        |                | ┝        | _               |
|          | 120<br>121<br>122 | H        | _        | ⊢        | -            | -            | ⊢        |                |          |                 |
|          | 122               |          | $\vdash$ | -        | <del> </del> | $\vdash$     |          | $\vdash$       | _        | $\dashv$        |
|          | 123               | _        | -        | $\vdash$ | -            | $\vdash$     | $\vdash$ |                | $\vdash$ | $\dashv$        |
|          | 123<br>124        |          |          |          |              | Г            |          |                |          | П               |
|          | 125               |          |          |          |              |              |          |                |          |                 |
|          | 126               |          |          |          |              |              |          |                |          |                 |
|          | 127               |          | _        |          | _            | _            | <u> </u> | _              | _        | Ш               |
|          | 128<br>129        | <u> </u> | ļ        |          |              | ┕            | <u> </u> |                | <u> </u> | Ш               |
|          | 129               | <u> </u> |          | ┡        | -            | <u> </u>     | $\vdash$ | -              | ├        |                 |
|          | 130               | -        |          | ┢        | ├            | ├—           | ╁        | ├─             | ┢        | $\vdash \vdash$ |
|          | 131<br>132        | ┢╾       | -        |          | $\vdash$     | -            | $\vdash$ | ┢              | $\vdash$ | $\vdash$        |
|          | 133               | H        | $\vdash$ | ┢        | 1            |              | $t^-$    | $\vdash$       | ┢        |                 |
|          | 134               | ┪        |          | 一        |              |              | 1        |                |          | П               |
|          | 134<br>135        |          |          |          |              |              |          |                |          |                 |
|          | 136<br>137        |          |          |          |              | _            |          |                | 乚        |                 |
|          | 137               | <u> </u> | <u> </u> | _        | <u> </u>     | <u> </u>     | <u> </u> | ╙              | ╙        | Ш               |
|          | 138               | <b>↓</b> | _        | ┡        | ┞-           | ऻ_           | ļ        | <u> </u>       | ├-       | Н               |
|          | 139<br>140        | ⊢        | -        | ├        | -            | ├            | ⊢        | ┝              | ├        | $\vdash$        |
|          | 141               |          | ├─       | ╁        | ├            | ╁            | ┢        | ┼              |          | Н               |
|          | 142               | -        | $\vdash$ | $t^-$    | +-           | $\vdash$     | ╁        | 一              | 1        | $\vdash \vdash$ |
|          | 143               | 1        | Г        | 1        | $\vdash$     | T            | †        | T              | $\vdash$ | П               |
|          | 144               |          |          | $\vdash$ | T            | T            | Τ        |                |          |                 |
|          | 145               |          |          |          |              |              |          |                |          |                 |
|          | 146               |          |          | 匚        |              |              |          |                | $\Box$   | Ш               |
|          | 147               |          | L        | $\perp$  | _            | $oxed{oxed}$ | 1        | <u> </u>       | ┞-       | Ш               |
|          | 148               | _        | ┞        | ┞-       | $\vdash$     | <u> </u>     | 1-       | ├              | ├-       | $\vdash$        |
| <u> </u> | 149               |          | ├-       | $\vdash$ | $\vdash$     | ╀            | $\vdash$ | <del> </del> — | ┼-       | $\vdash$        |
| L        | 150               |          | 1_       | 1_       |              | 1            |          | <u> </u>       | Ц        | Ш               |